Formative Assessment

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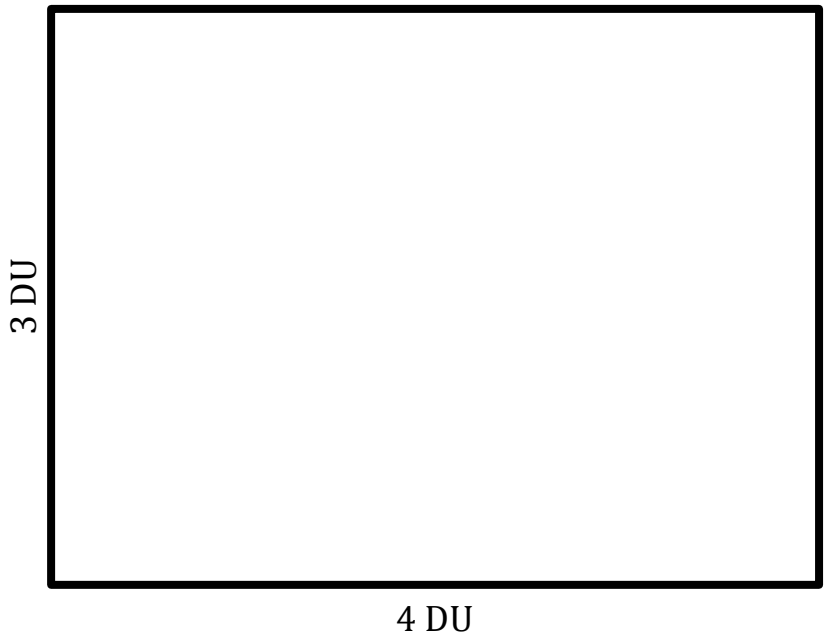
Administer the formative assessment and select contrasting student responses to create further opportunities for learning about area measure, especially rectangular area as a product of lengths, structuring rectangles and squares to reveal units of area measure, accounting for partial units of area measure, and justifying why the area of a rectangle and a parallelogram with the same base and height must be the same.

Formative Assessment Area Unit 3

Name:_____

1. What is the area of this rectangle? Show the units by drawing them.

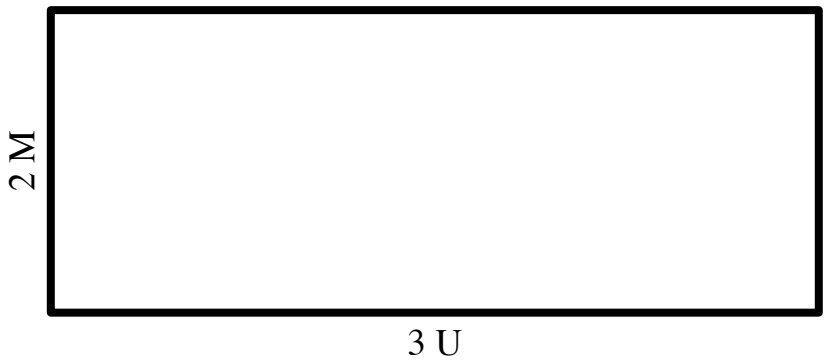


2. What is the area of a $2\frac{1}{2} in. \times 4\ in.$ rectangle? What is its perimeter? Show how you found out.

Formative Assessment — Area Unit 3

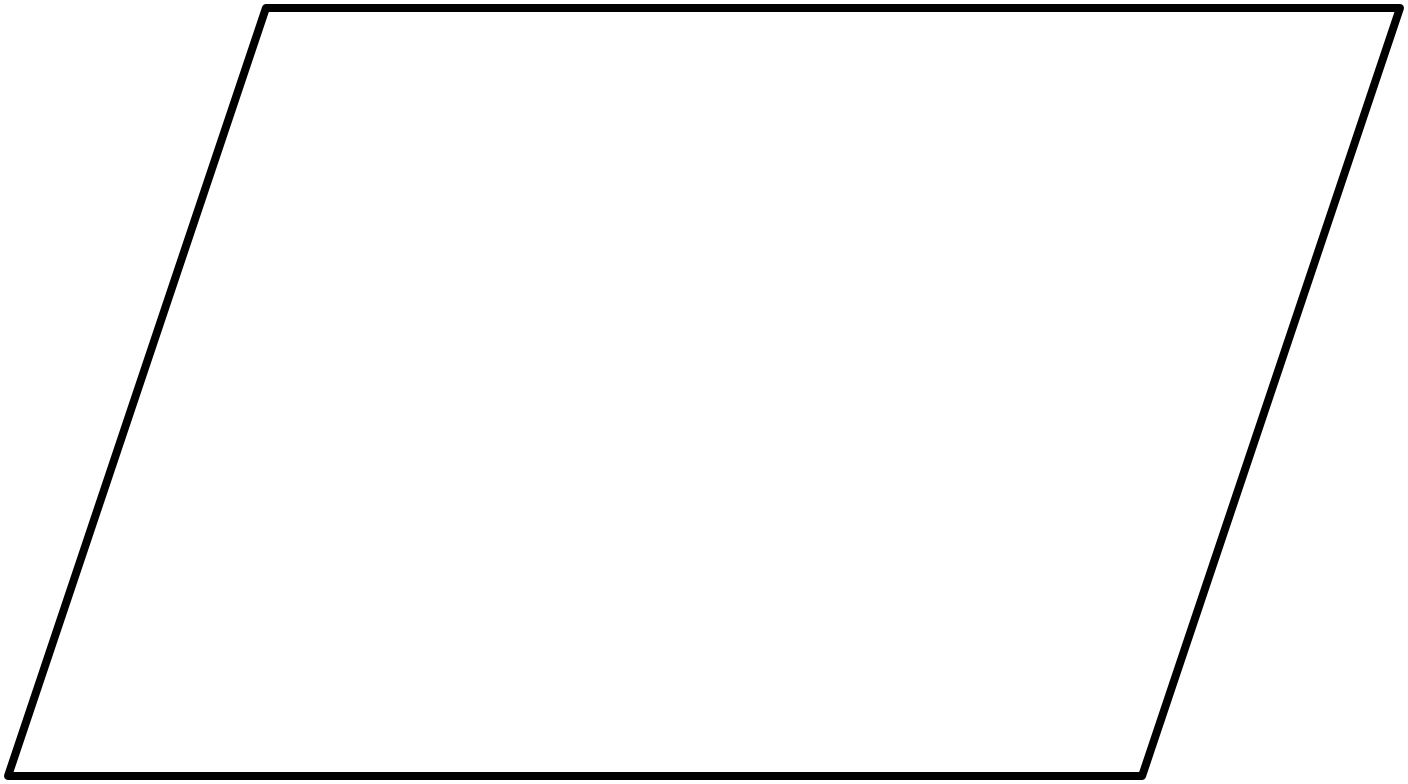
3. Using your ruler, draw $\frac{1}{4}\,in.^2$

4. The lengths of the sides of this rectangle are measured in units of *M* and *U*, as shown below. What is the area of the rectangle? Show the units of area. What is the perimeter?



Worksheet Area Unit 3

Name:_____



Formative Assessment Record — Area Unit 3

Indicate the levels of mastery demonstrated by circling those for which there is clear evidence:

Item	Level Circle highest level of performance	Description	Notes
Item 1 Finding the area of a 3 $in.$ × 4 $in.$ rectangle and showing 12 $in.^2$	**ToMAA 4A** Given an area, partition into arrays of units by coordinating linear measurements of the shape.	3-splits one side, 4-splits the other side, coordinates splits to show 12 DU^2	
	ToAM3B Find and compare areas by counting identical units used to tile.	Cannot coordinate lengths to generate square units but generates some other unit that is used consistently to cover.	
	NL	Cannot partition region systematically.	
Item 2 Finding an area of $2\frac{1}{2} in.$ × 4 $in.$ rectangle	**ToAM3F** Partition to find and compare areas using half-units and other two-splits.	Area as 10 $in.^2$ and perimeter as 13 $in.$	
	Other Describe		
Item 3 Draw $\frac{1}{4} sq. in.$	**ToAM 3F** Partition to find and compare areas using half-units and other two-splits.	Draws a unit $\frac{1}{2} in.$ × $\frac{1}{2} in.$ or 1 in. × $\frac{1}{4}$ in.	
	ToAM3D Recognize/construct suitable units.	Draws a unit $\frac{1}{4} in.$ × $\frac{1}{4} in.$	
	Other Describe		
Item 4 2M × 3U	**ToAM4E** Find and compare areas with dimensions given in unlike units (e.g., length in cm, width in inches).	Draws 6 rectangular MU units. Notes that the perimeter is 4M + 6U	
	ToAM3D Recognize/construct suitable units.	Attempts to use a unit of area other than an MU	
	Other Describe		